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Servers

Servers 1

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Databases

Databases 1

- employees

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employees

Properties

Name	Value
Collation	utf8mb4_0900_ai_ci

Object Types 1

Tables

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Tables

Objects 6

Name	Description
departments	Table with the department information.
dept_emp	Table that relates employees to departments. It contains information about from what date to what date an employee has been working in a department.
dept_manager	Table that contains who is the manager of each department from a specific date to a specific date.
employees	Table with the information about the employees.
salaries	Table containing the gross salary of the employees from a specific date to a specific date.
titles	Table containing the job title of the employees from a specific date to a specific date.

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departments

Description

Table with the department information.

Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
	dept_no	CHAR	4			False	False	False	True	False		False	unique numeric identifier of the department
	dept_name	VARCHAR	40			False	False	False	True	False		False	name of the department as it is know in the company

SQL Script

```
CREATE TABLE departments (
  dept_no CHAR(4) NOT NULL,
  dept_name VARCHAR(40) NOT NULL,
  PRIMARY KEY (dept_no)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE departments
  ADD UNIQUE INDEX dept_name(dept_name);
```


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dept_emp

Description

Table that relates employees to departments. It contains information about from what date to what date an employee has been working in a department.

Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
	emp_no	INT		11		False	False	False	True	False		False	Unique identifier of the employee as it is in the employees table
	dept_no	CHAR	4			False	False	False	True	False		False	Unique identifier of the department as it is in the departments table
	from_date	DATE	0			False	False	False	True	False		False	Date at which the employee started working in the depatment
	to_date	DATE	0			False	False	False	True	False		False	Date at which the employee finished working in the depatment

SQL Script

```
CREATE TABLE dept_emp (
  emp_no INT NOT NULL,
  dept_no CHAR(4) NOT NULL,
  from_date DATE NOT NULL,
  to_date DATE NOT NULL,
  PRIMARY KEY (emp_no, dept_no)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE dept_emp
  ADD CONSTRAINT dept_emp_ibfk_1 FOREIGN KEY (emp_no)
    REFERENCES employees(emp_no) ON DELETE CASCADE;

ALTER TABLE dept_emp
  ADD CONSTRAINT dept_emp_ibfk_2 FOREIGN KEY (dept_no)
    REFERENCES departments(dept_no) ON DELETE CASCADE;
```


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dept_manager

Description

Table that contains who is the manager of each department from a specific date to a specific date.

Columns 4

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
	emp_no	INT		11		False	False	False	True	False		False	Identifier of the employee that is the manager of the department
	dept_no	CHAR	4			False	False	False	True	False		False	Reference to the department
	from_date	DATE	0			False	False	False	True	False		False	Date at which the employee started being manager of the department.
	to_date	DATE	0			False	False	False	True	False		False	Date at which the employee finished being manager of the department.

Foreign Keys 2

Name	Columns	Delete Rule	Update Rule
dept_manager_ibfk_1	emp_no	N/S	N/S
dept_manager_ibfk_2	dept_no	N/S	N/S

SQL Script

```
CREATE TABLE dept_manager (
  emp_no INT NOT NULL,
  dept_no CHAR(4) NOT NULL,
  from_date DATE NOT NULL,
  to_date DATE NOT NULL,
  PRIMARY KEY (emp_no, dept_no)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE dept_manager
  ADD CONSTRAINT dept_manager_ibfk_1 FOREIGN KEY (emp_no)
    REFERENCES employees(emp_no) ON DELETE CASCADE;

ALTER TABLE dept_manager
  ADD CONSTRAINT dept_manager_ibfk_2 FOREIGN KEY (dept_no)
    REFERENCES departments(dept_no) ON DELETE CASCADE;
```

Depends On 2

- departments
- employees

Used By

No items found

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employees

Description

Table with the information about the employees.

Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
🔑	emp_no	INT		11		False	False	False	True	False		False	Unique identifier of the employee
	birth_date	DATE	0			False	False	False	True	False		False	Date of birth of the employee
	first_name	VARCHAR	14			False	False	False	True	False		False	First name of the employee
	last_name	VARCHAR	16			False	False	False	True	False		False	Last name of the employee
	gender	ENUM	0			False	False	False	True	False		False	Gender of the employee. M for male, F for female
	hire_date	DATE	0			False	False	False	True	False		False	Hire date of the employee

SQL Script

```sql
CREATE TABLE employees (
  emp_no INT NOT NULL,
  birth_date DATE NOT NULL,
  first_name VARCHAR(14) NOT NULL,
  last_name VARCHAR(16) NOT NULL,
  gender ENUM('M','F') NOT NULL,
  hire_date DATE NOT NULL,
  PRIMARY KEY (emp_no)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;
```


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salaries

Description

Table containing the gross salary of the employees from a specific date to a specific date.

Columns 4

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
	emp_no	INT		11		False	False	False	True	False		False	Identifier of the employee
	salary	INT		11		False	False	False	True	False		False	Annual gross salary of the employee
	from_date	DATE	0			False	False	False	True	False		False	Date starting the salary
	to_date	DATE	0			False	False	False	True	False		False	Date ending the salry

SQL Script

```
CREATE TABLE salaries (
  emp_no INT NOT NULL,
  salary INT NOT NULL,
  from_date DATE NOT NULL,
  to_date DATE NOT NULL,
  PRIMARY KEY (emp_no, from_date)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE salaries
  ADD CONSTRAINT salaries_ibfk_1 FOREIGN KEY (emp_no)
    REFERENCES employees(emp_no) ON DELETE CASCADE;
```


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titles

Description

Table containing the job title of the employees from a specific date to a specific date.

Columns 4

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
	emp_no	INT		11		False	False	False	True	False		False	Employee unique identifier
	title	VARCHAR	50			False	False	False	True	False		False	Job title of the employee
	from_date	DATE	0			False	False	False	True	False		False	Starting date of the employee at the job title
	to_date	DATE	0			False	False	False	False	False	NULL	False	Finishing date of the employee at the job title

SQL Script

```
CREATE TABLE titles (
  emp_no INT NOT NULL,
  title VARCHAR(50) NOT NULL,
  from_date DATE NOT NULL,
  to_date DATE DEFAULT NULL,
  PRIMARY KEY (emp_no, title, from_date)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE titles
  ADD CONSTRAINT titles_ibfk_1 FOREIGN KEY (emp_no)
    REFERENCES employees(emp_no) ON DELETE CASCADE;
```


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